

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An electrocoagulation treatment device for treatment of a flow of liquid comprising:
  - a housing having an upper portion and a lower portion, said upper portion defining a development chamber and said lower portion defining a reaction chamber;
  - an inlet communicating with said housing at said reaction chamber to allow the flow of liquid into said housing;
  - a secondary separation chamber integral with said housing and placed adjacent said upper portion thereof;
  - an outlet communicating with said secondary separation chamber to allow the flow of liquid out of said housing;
  - a plurality of reaction plates disposed in said housing and extending substantially vertical within said reaction chamber, said plurality of reaction plates being spaced apart from one another creating gaps extending continuously between adjacent reaction plates, said flow of liquid being in a flow direction upward through said gaps between said plurality of reaction plates, said reaction plates being consumed over time due to electrocoagulation and being removed for replacement due to being consumed;

a plurality of reaction plate tabs formed integral with selected corresponding ones of said plurality of reaction plates, said reaction plate tabs having ends which are isolated from the flow of liquid in said housing, said reaction plate tabs being removed with said reaction plates;

a source of DC power providing line voltage to at least two of said tabs, but less than all of said tabs, in order to create an electrical field for the electrocoagulation treatment within said reaction chamber; and

wherein at least three reaction plate tabs include corresponding tab extensions that extend through the lower portion of the housing.

2. (Original) A device, as claimed in claim 1, wherein:

said development chamber is further defined as an open area above said reaction chamber within said housing.

3. (Previously presented) A device, as claimed in claim 1, further including:

a weir positioned in said housing and interconnecting said secondary separation chamber and said development chamber.

4. (Original) A device, as claimed in claim 1, further including:

a top cover placed over said housing.

5. (Cancel)

6. (Original) A device, as claimed in claim 1, further including:  
a vacuum tube extending through said secondary separation chamber, said vacuum tube connected to a source of vacuum for evacuating contaminants within said housing.
7. (Original) A device, as claimed in claim 1, further including:  
an air inlet attached to said housing at said lower portion thereof to introduce air within said liquid stream resulting in increased turbulence.
8. (Original) A device, as claimed in claim 1, wherein:  
said housing further includes a pair of opposing ledges formed in said lower portion thereof, said pair of ledges for supporting lower edges of said plurality of reaction plates.
9. (Original) A device, as claimed in claim 1, further including:  
a riser tube communicating with said outlet and said riser tube extending upwards from a lower surface of said secondary separation chamber.
10. (Original) A device, as claimed in claim 1, further including:  
at least two reaction plate tab housing extensions extending from the lower portion of said housing, wherein said at least two reaction plate tabs are received in said extensions.

11. (Currently Amended) An electrocoagulation treatment device for treatment of a flow of liquid comprising:

a housing including an upper portion and a lower portion, said upper portion defining a development chamber and said lower portion defining a reaction chamber;

an inlet communicating with said housing at said lower portion to allow the flow of liquid into said housing;

a secondary separation chamber integral with said housing and extending adjacent therefrom;

a plurality of reaction plates disposed in said housing and extending substantially vertically therein, said plurality of reaction plates being spaced apart from one another creating gaps extending continuously between adjacent reaction plates, said flow of liquid being in a flow direction upward through said gaps between said plurality of reaction plates, said reaction plates being consumed over time due to electrocoagulation and being removed for replacement due to being consumed;

a source of DC power communicating with said reaction plates, said source of DC power providing voltage to said reaction plates in order to create an electrical field for electrocoagulation treatment within said reaction chamber;

means for interconnecting said plurality of reaction plates to said source of DC power, said means for interconnecting including a plurality of tabs formed integrally with a corresponding plurality of reaction plates and extending through said lower portion of said

housing, said reaction plate tabs being removed with said reaction plates and wherein less than all of said tabs are connected to said source of DC power;

an outlet communicating with said secondary separation chamber to allow the flow of liquid out of said housing; and

wherein at least three reaction plate tabs include corresponding tab extensions that extend through the lower portion of the housing.

12. (Original) A device, as claimed in claim 11, wherein:

said development chamber is further defined as an open area above said reaction chamber within said housing.

13. (Previously presented) A device, as claimed in claim 11, further including:

a weir integral with said housing and interconnecting said secondary separation chamber and said development chamber.

14. (Original) A device, as claimed in claim 11, further including:

a top cover placed over said housing.

15. (Cancel)

16. (Original) A device, as claimed in claim 11, further including:  
a vacuum tube extending through said secondary separation chamber, said vacuum tube connected to a source of vacuum for evacuating contaminants within said housing.

17. (Original) A device, as claimed in claim 11, further including:  
an air inlet attached to said housing at said lower portion to introduce air within said liquid stream thereby increasing turbulence.

18. (Original) A device, as claimed in claim 11, wherein:  
said housing further includes a pair of opposing ledges formed in said lower portion thereof, said pair of ledges for supporting lower edges of said plurality of reaction plates.

19. (Original) A device, as claimed in claim 11, further including:  
a riser tube communicating with said outlet and said riser tube extending upwards from a lower surface of said secondary separation chamber.

20. (Previously presented) A device, as claimed in claim 11, further including:  
at least two reaction plate tab housing extensions extending from the lower portion of said housing, wherein said means for interconnecting are received in said extensions.

21-22. (Canceled).